

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 10, 2003, 07:34:34 ; Search time 1132.08 Seconds
(without alignments)
225.494 Million cell updates/sec

Title: US-09-810-521-6
Perfect score: 80
Sequence: 1 gtaggttttttgcggggtt.....ctatgagcacagggttaaca 80

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2141354 seqs, 1595478879 residues

Total number of hits satisfying chosen parameters: 4282708

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
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12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	80	100.0	80	9	US-09-810-521-6
2	80	100.0	80	12	US-10-337-985-6
3	63.2	79.0	79	9	US-09-810-521-4
4	63.2	79.0	79	12	US-10-337-985-4
5	63.2	79.0	1026	11	US-09-746-660A-53
6	63.2	79.0	1411	14	US-10-226-136-14
7	63.2	79.0	3309400	10	US-09-738-626-1
8	61.6	77.0	79	9	US-09-810-521-5
9	61.6	77.0	79	12	US-10-337-985-5
10	38.4	48.0	40	9	US-09-810-521-18
11	38.4	48.0	40	12	US-10-337-985-16
12	37.4	46.8	39	9	US-09-810-521-17
13	37.4	46.8	39	12	US-10-337-985-15
14	32	40.0	40	9	US-09-810-521-16
15	32	40.0	40	12	US-10-337-985-14
16	29	36.2	513	12	US-10-027-632-232198

c 17	29	36.2	513	12	US-10-027-632-232199	Sequence 232199,
c 18	29	36.2	513	13	US-10-027-632-232198	Sequence 232198,
c 19	29	36.2	513	13	US-10-027-632-232199	Sequence 232199,
c 20	28.6	35.8	198285	10	US-09-880-107-3814	Sequence 3814, Ap
c 21	27.4	34.2	1029	12	US-10-027-632-85566	Sequence 85566, A
c 22	27.4	34.2	1029	13	US-10-027-632-85566	Sequence 85566, A
c 23	27.4	34.2	6558	10	US-09-764-877-3503	Sequence 3503, Ap
c 24	27.2	34.0	849	12	US-10-027-632-121328	Sequence 121328,
c 25	27.2	34.0	849	13	US-10-027-632-121328	Sequence 121328,
c 26	26.6	33.2	402850	11	US-09-844-653-5	Sequence 5, Appli
c 27	26.2	32.8	696	12	US-10-027-632-136631	Sequence 136631,
c 28	26.2	32.8	696	13	US-10-027-632-136631	Sequence 136631,
c 29	26.2	32.8	854	12	US-10-027-632-171698	Sequence 171698,
c 30	26.2	32.8	854	13	US-10-027-632-171698	Sequence 171698,
c 31	26.2	32.8	2360	14	US-10-181-846-10	Sequence 10, Appl
c 32	26	32.5	859	12	US-10-027-632-32416	Sequence 32416, A
c 33	26	32.5	859	13	US-10-027-632-32416	Sequence 32416, A
c 34	26	32.5	1184	12	US-10-027-632-117451	Sequence 117451,
c 35	26	32.5	1184	13	US-10-027-632-117451	Sequence 117451,
c 36	26	32.5	1184	13	US-10-027-632-117451	Sequence 117451,
c 37	26	32.5	1184	13	US-10-027-632-117451	Sequence 117451,
c 38	25.6	32.0	452	9	US-09-876-889-237	Sequence 237, App
c 39	25.2	31.5	30	14	US-10-067-974-25	Sequence 25, Appl
c 40	25.2	31.5	445	10	US-05-867-701-4986	Sequence 4986, Ap
c 41	25.2	31.5	1119	12	US-10-027-632-117385	Sequence 117385,
c 42	25.2	31.5	1119	12	US-10-027-632-117386	Sequence 117386,
c 43	25.2	31.5	1119	13	US-10-027-632-117385	Sequence 117385,
c 44	25.2	31.5	1119	13	US-10-027-632-117386	Sequence 117386,
c 45	25.2	31.5	1726	15	US-10-282-287-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-810-521-6
; Sequence 6, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGERLING, LOTHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/MAS
; CURRENT APPLICATION NUMBER: US/09/810.521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: dapa promoter of C. glutamicum with the
; OTHER INFORMATION: MAL6 mutation
; NAME/KEY: mutation
; LOCATION: (35)...(53)
US-09-810-521-6

Query Match 100.0%; Score 80; DB 9; Length 80;
Best Local Similarity 100.0%; Pred. No. 1.1e-18;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGAAGGTATTAATTGAAC 60
Db 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGAAGGTATTAATTGAAC 60

Oy 61 CTATGAGCACAGGTTTAACA 80
|
Db 61 CTATGAGCACAGGTTTAACA 80

RESULT 2

US-10-337-985-6
; Sequence 6, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfeifferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahn, Hermann
; APPLICANT: Patek, Miroslav
; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(80)
; OTHER INFORMATION: C. glutamicum carrying the MAL6 mutation
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (35)-(53)
US-10-337-985-6

Query Match 100.0%; Score 80; DB 12; Length 80;
Best Local Similarity 100.0%; Pred. No. 1.1e-18;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 60
|
Db 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 60

Oy 61 CTATGAGCACAGGTTTAACA 80
|
Db 61 CTATGAGCACAGGTTTAACA 80

RESULT 3

US-09-810-521-4
; Sequence 4, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELING, LOTHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/NAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4

; LENGTH: 79
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; OTHER INFORMATION: dapA wild-type promoter
US-09-810-521-4

Query Match 79.0%; Score 63.2; DB 9; Length 79;
Best Local Similarity 95.0%; Pred. No. 9.9e-13;
Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
Oy 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 60
|
Db 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 59
Oy 61 CTATGAGCACAGGTTTAACA 80
|
Db 60 CTATGAGCACAGGTTTAACA 79

RESULT 4

US-10-337-985-4
; Sequence 4, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfeifferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahn, Hermann
; APPLICANT: Patek, Miroslav
; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(79)
; OTHER INFORMATION: dapA wild type promoter
US-10-337-985-4

Query Match 79.0%; Score 63.2; DB 12; Length 79;
Best Local Similarity 95.0%; Pred. No. 9.9e-13;
Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Oy 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 60
|
Db 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGGTAATTAATGAACT 59
Oy 61 CTATGAGCACAGGTTTAACA 80
|
Db 60 CTATGAGCACAGGTTTAACA 79

RESULT 5

US-09-746-660A-53
; Sequence 53, Application US/09746660A
; Publication No. US20030049804A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor

APPLICANT: Kim, Jun-Won
APPLICANT: Lee, Heung-Schick
APPLICANT: Hwang, Byung-Joon
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
FILE REFERENCE: BGI-121CP2
CURRENT APPLICATION NUMBER: US/09/746,660A
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 09/606740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 09/603124
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142101
PRIOR FILING DATE: 1999-07-02
PRIOR APPLICATION NUMBER: 60/148613
PRIOR FILING DATE: 1999-08-12
PRIOR APPLICATION NUMBER: 60/187970
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: DE 19931420.9
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 125
SOFTWARE: PatentIn Vers. 2.0
SEQ ID NO 53
LENGTH: 1026
TYPE: DNA
ORGANISM: Corynebacterium glutamicum
FEATURE:
NAME/KEY: CDS
LOCATION: (101)..(1003)
OTHER INFORMATION: RXA00865
US-09-746-660A-53

Query Match 79.0%; Score 63.2; DB 11; Length 1026;
Best Local Similarity 95.0%; Pred. No. 2.3e-12; Indels 1; Gaps 1;
Matches 76; Conservative 0; Mismatches 3

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATTAATTGAAC 60
Db 40 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATTAATTGAAC 98

QY 61 CTATGAGCACAGGTTTAACA 80
Db 99 CTATGAGCACAGGTTTAACA 118

RESULT 6
US-10-226-136-14
Sequence 14, Application US/10226136
Publication No. US20030054506A1
GENERAL INFORMATION:
APPLICANT: OTSUNA, Seiko
SUGIMOTO, Masakazu
IZUI, Masako
HAYAKAWA, Atsushi
NAKANO, Eiichi
KOBAYASHI, Masaki
YOSHIMURA, Yasuhiko
NAKAMATSU, Tsuyoshi
TITLE OF INVENTION: METHOD OF PRODUCING L-LYSINE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/226,136
FILING DATE: 23-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/952,976
FILING DATE: 8-DEC-1997
APPLICATION NUMBER: JP 7-140614
FILING DATE: 07-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1411 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Brevibacterium lactofermentum
STRAIN: ATCC 13869
FEATURE:
NAME/KEY: CDS
LOCATION: 311..1213
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-226-136-14

Query Match 79.0%; Score 63.2; DB 14; Length 1411;
Best Local Similarity 95.0%; Pred. No. 2.6e-12; Indels 1; Gaps 1;
Matches 76; Conservative 0; Mismatches 3

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATTAATTGAAC 60
Db 250 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATTAATTGAAC 308

QY 61 CTATGAGCACAGGTTTAACA 80
Db 309 CTATGAGCACAGGTTTAACA 328

RESULT 7
US-09-738-626-1/c
Sequence 1, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0

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; SEQ ID NO 1
; LENGTH: 3309400
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; US-09-738-626-1

Query Match          79.0%; Score 63.2; DB 10; Length 3309400;
Best Local Similarity 95.0%; Pred. No. 3.4e-11;
Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 60
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Db 2080244 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 2080186

QY 61 CTATGAGCACAGGTTTAAACA 80
   |||||
Db 2080185 CTATGAGCACAGGTTTAAACA 2080166

RESULT 8
US-09-810-521-5
; Sequence 5, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELE, LOHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/NAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; NAME/KEY: mutation
; LOCATION: (45)
US-09-810-521-5

Query Match          77.0%; Score 61.6; DB 9; Length 79;
Best Local Similarity 93.8%; Pred. No. 3.7e-12;
Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 60
   |||||
Db 1 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 59

QY 61 CTATGAGCACAGGTTTAAACA 80
   |||||
Db 60 CTATGAGCACAGGTTTAAACA 79

RESULT 9
US-09-810-521-6
; Sequence 5, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
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; APPLICANT: Pfefferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahm, Hermann
; APPLICANT: Patek, Miroslov
; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(79)
; OTHER INFORMATION: dapA promoter of C. glutamicum carrying the MC20 mutation
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (45)
US-10-337-985-5

Query Match          77.0%; Score 61.6; DB 12; Length 79;
Best Local Similarity 93.8%; Pred. No. 3.7e-12;
Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 60
   |||||
Db 1 GTTAGGTTTTTTCGGGGTGTGTTAACCCCAAAATGAGGGAAGAGGTATTAATTGAACT 59

QY 61 CTATGAGCACAGGTTTAAACA 80
   |||||
Db 60 CTATGAGCACAGGTTTAAACA 79

RESULT 10
US-09-810-521-18/c
; Sequence 18, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELE, LOHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/NAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Artificial
; OTHER INFORMATION: Primer
US-09-810-521-18

Query Match          48.0%; Score 38.4; DB 9; Length 40;
Best Local Similarity 97.5%; Pred. No. 0.00049;
Matches 39; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 31 CAAATGAGGGAAGAGGTATTAATTGAACTCTATGAGCAC 70
   |||||
Db 40 CCAATGAGGGAAGAGGTATTAATTGAACTCTATGAGCAC 1
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RESULT 11
US-10-337-985-16/c
; Sequence 16, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfefferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahm, Hermann
; APPLICANT: Patek, Miroslav
; TITLE OF INVENTION: L-LYSINE-PRODUCING CORYNEBACTERIUM AND PROCESS FOR THE PREPARATION
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 16
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(40)
; OTHER INFORMATION: PCR primer
US-10-337-985-16

Query Match 48.0%; Score 38.4; DB 12; Length 40;
Best Local Similarity 97.5%; Pred. No. 0.0049;
Matches 39; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 CAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCAC 70
Db 40 CCAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCAC 1
RESULT 12
US-09-810-521-17
; Sequence 17, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELING, LOTHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/MAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 17
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Artificial
; OTHER INFORMATION: Primer
US-09-810-521-17

Query Match 46.8%; Score 37.4; DB 9; Length 39;
Best Local Similarity 97.4%; Pred. No. 0.0011;
Matches 38; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 CAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCA 69
Db 1 CCAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCA 39
RESULT 13
US-10-337-985-15
; Sequence 15, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfefferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahm, Hermann
; APPLICANT: Patek, Miroslav
; TITLE OF INVENTION: L-LYSINE-PRODUCING CORYNEBACTERIUM AND PROCESS FOR THE PREPARATION
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 15
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(39)
; OTHER INFORMATION: PCR primer
US-10-337-985-15

Query Match 46.8%; Score 37.4; DB 12; Length 39;
Best Local Similarity 97.4%; Pred. No. 0.0011;
Matches 38; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 CAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCA 69
Db 1 CCAAATGAGGGAAGGTATTAATTGAAGTCTATGAGCA 39
RESULT 14
US-09-810-521-16/c
; Sequence 16, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELING, LOTHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/MAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 16
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Artificial
; OTHER INFORMATION: Primer
US-09-810-521-16

Query Match 40.0%; Score 32; DB 9; Length 40;
 Best Local Similarity 87.5%; Pred. No. 0.091;
 Matches 35; Conservative 0; Mismatches 0; Gaps 0;

Qy 31 CAAATGAGGGAAGGTATTAATGAACTCTATGAGCAC 70
 Db 40 CCAATGAGGGAAGGTATTAATGAACTCTATGAGCAC 1

RESULT 15

US-10-337-985-14/c
 ; Sequence 14, Application US/10337985
 ; Publication No. US20030162269A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kreutzer, Caroline
 ; APPLICANT: Hans, Stephan
 ; APPLICANT: Rieping, Mechthild
 ; APPLICANT: Mockel, Bettina
 ; APPLICANT: Pfeifferle, Walter
 ; APPLICANT: Eggeling, Lothar
 ; APPLICANT: Sahn, Hermann
 ; APPLICANT: Patek, Miroslov
 ; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
 ; FILE REFERENCE: 21123/278409
 ; CURRENT APPLICATION NUMBER: US/10/337,985
 ; CURRENT FILING DATE: 2003-01-08
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 14
 ; LENGTH: 40
 ; TYPE: DNA
 ; ORGANISM: Artificial
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (1)..(40)
 ; OTHER INFORMATION: PCR primer
 US-10-337-985-14

Query Match 40.0%; Score 32; DB 12; Length 40;
 Best Local Similarity 87.5%; Pred. No. 0.091;
 Matches 35; Conservative 0; Mismatches 0; Gaps 0;

Qy 31 CAAATGAGGGAAGGTATTAATGAACTCTATGAGCAC 70
 Db 40 CCAATGAGGGAAGGTATTAATGAACTCTATGAGCAC 1

Search completed: November 10, 2003, 08:36:17
 Job time : 1138.08 secs

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OM nucleic - nucleic search, using sw model

Run on: November 10, 2003, 07:34:34 ; Search time 54.8428 Seconds
(without alignments)
643.852 Million cell updates/sec

Title: US-09-810-521-6
Perfect score: 80
Sequence: 1 gttagggttttgcggggtt.....ctatgagcacaggtttaaca 80

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgm2_6/ptodata/2/ina/5A COMB.seq.*
2: /cgm2_6/ptodata/2/ina/5B COMB.seq.*
3: /cgm2_6/ptodata/2/ina/6A COMB.seq.*
4: /cgm2_6/ptodata/2/ina/6B COMB.seq.*
5: /cgm2_6/ptodata/2/ina/6CTUS COMB.seq.*
6: /cgm2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	80	100.0	80	3	US-09-353-133-6
2	63.2	79.0	79	3	US-09-353-133-4
3	63.2	79.0	1411	1	US-08-674-168-18
4	63.2	79.0	1411	3	US-08-985-908-14
5	63.2	79.0	1411	3	US-08-852-730-19
6	61.6	77.0	79	3	US-09-353-133-5
7	26.2	32.8	2358	3	US-09-022-983-1
8	26.2	32.8	2360	3	US-09-490-652-10
9	25.6	32.0	452	4	US-09-397-787-237
10	25.2	31.5	3001	4	US-09-539-333D-215
11	25.2	31.5	5718	3	US-08-714-918-48
12	25.2	31.5	5718	3	US-09-265-315-48
13	25.2	31.5	5718	3	US-09-265-315-48
14	25.2	31.5	5718	3	US-09-266-417-48
15	25	31.2	9244	4	US-08-961-527-68
16	25	31.2	12385	4	US-09-822-862-3
17	24.8	31.0	1830121	4	US-09-557-884-1
18	24.8	31.0	1830121	4	US-09-643-990A-1
19	24.6	30.8	9844	3	US-08-462-437-30
20	24.6	30.8	13104	3	US-08-256-799-4
21	24.6	30.8	13104	3	US-08-462-437-4
22	24.4	30.5	4223	3	US-08-845-258-7
23	24.4	30.5	4223	3	US-08-845-258-7
24	24.4	30.5	4223	3	US-08-990-571-7
25	24.4	30.5	4223	3	US-08-990-571-7
26	24.4	30.5	4223	3	US-08-723-142A-7
27	24.4	30.5	4223	4	US-08-723-142A-45

c	28	24.4	30.5	4223	4	US-09-528-784A-7	Sequence 7, Appli
c	29	24.4	30.5	4223	4	US-09-528-784A-45	Sequence 45, Appli
c	30	24.4	30.5	4223	4	US-09-569-098A-7	Sequence 7, Appli
c	31	24.4	30.5	4223	4	US-09-569-098A-45	Sequence 45, Appli
c	32	24	30.0	4892	4	US-09-620-312D-492	Sequence 492, App
c	33	24	30.0	4964	4	US-09-620-312D-491	Sequence 491, App
c	34	24	30.0	5178	2	US-08-474-169-2	Sequence 2, Appli
c	35	24	30.0	5183	3	US-09-039-555B-18	Sequence 18, Appli
c	36	24	30.0	5243	2	US-08-414-335-2	Sequence 2, Appli
c	37	24	30.0	5825	4	US-08-809-513A-7	Sequence 7, Appli
c	38	24	30.0	6206	2	US-08-474-169-3	Sequence 3, Appli
c	39	24	30.0	7616	3	US-09-011-745-2	Sequence 2, Appli
c	40	24	30.0	8540	4	US-08-487-283A-4	Sequence 4, Appli
c	41	24	30.0	8540	5	PCT-US96-05611A-12	Sequence 12, Appli
c	42	24	30.0	8932	2	US-08-252-493C-8	Sequence 8, Appli
c	43	24	30.0	8932	3	US-09-276-197-8	Sequence 8, Appli
c	44	24	30.0	10785	3	US-08-444-644-27	Sequence 27, Appli
c	45	24	30.0	10785	4	US-08-232-246A-27	Sequence 27, Appli

ALIGNMENTS

RESULT 1
US-09-353-133-6
; Sequence 6, Application US/09353133
; Patent No. 6200785
; GENERAL INFORMATION:
; APPLICANT: Degussa-Hols AG
; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the
; FILE REFERENCE: 990058 BT
; CURRENT APPLICATION NUMBER: US/09/353.133
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 6
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Synthetic sequence
; FEATURE:
; OTHER INFORMATION: Description of the synthetic sequence:
; OTHER INFORMATION: dapa promoter of C. glutamicum with the
; OTHER INFORMATION: MA16-Mutation
; NAME/KEY: mutation
; LOCATION: (35)...(53)
US-09-353-133-6

Query Match 100.0%; Score 80; DB 3; Length 80;
Best Local Similarity 100.0%; Pred. No. 9.8e-21;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GTTAGGTTTTTGGGGGTTCTTTAAACCCCAATAGGGGAAGGTATATTGAAC 60
Db 1 GTTAGGTTTTTGGGGGTTCTTTAAACCCCAATAGGGGAAGGTATATTGAAC 60
Qy 61 CTATGAGCACAGGTTTAAACA 80
Db 61 CTATGAGCACAGGTTTAAACA 80

RESULT 2
US-09-353-133-4
; Sequence 4, Application US/09353133
; Patent No. 6200785
; GENERAL INFORMATION:
; APPLICANT: Degussa-Hols AG
; APPLICANT: Forschungszentrum Jolich GmbH
; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the
; FILE REFERENCE: 990058 BT

;; CURRENT APPLICATION NUMBER: US/09/353,133
;; CURRENT FILING DATE: 1999-07-14
;; NUMBER OF SEQ ID NOS: 6
;; SOFTWARE: Patent In Ver. 2.1
;; SEQ ID NO 4
;; LENGTH: 79
;; TYPE: DNA
;; ORGANISM: Corynebacterium glutamicum
;; FEATURE:
;; OTHER INFORMATION: dapA wild-type promoter
US-09-353-133-4

Query Match 79.0%; Score 63.2; DB 3; Length 79;
Best Local Similarity 95.0%; Pred. No. 1.5e-14;
Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GTTAGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTGAAC 60
DB 1 GTTAGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTGAAC 59

QY 61 CTATGACACAGGTTTAAACA 80
DB 60 CTATGACACAGGTTTAAACA 79

RESULT 3
US-08-674-168-18
; Sequence 18, Application US/08674168
; Patent No. 580414
; GENERAL INFORMATION:
; APPLICANT: MORIYA, Mika
; APPLICANT: MATSUI, Hiroshi
; APPLICANT: YOKOZAKI, Kenzo
; APPLICANT: HIRANO, Seiko
; APPLICANT: HAYAKAWA, Atsushi
; APPLICANT: IZUI, Masako
; APPLICANT: SUGIMOTO, Masakazu
; TITLE OF INVENTION: METHOD OF AMPLIFYING GENE USING
; TITLE OF INVENTION: ARTIFICIAL TRANSPOSON
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE # 400
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/674,168
; FILING DATE: 01-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-166541
; FILING DATE: 30-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 10-810-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248655 OPAT UR
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1411 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Brevibacterium lactofermentum
;; STRAIN: ATCC 13869
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 311...1213
US-08-674-168-18

Query Match 79.0%; Score 63.2; DB 1; Length 1411;
Best Local Similarity 95.0%; Pred. No. 3.8e-14;
Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GTTAGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTGAAC 60
DB 250 GTTAGTTTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTGAAC 308

QY 61 CTATGACACAGGTTTAAACA 80
DB 309 CTATGACACAGGTTTAAACA 328

RESULT 4
US-08-985-908-14
; Sequence 14, Application US/08985908
; Patent No. 604773
; GENERAL INFORMATION:
; APPLICANT: MASAYUKI ARAKI, MASAKAZU SUGIMOTO, YASUHIKO YOSHIHARA, AND TSUYOSHI N
; TITLE OF INVENTION: METHOD FOR PRODUCING L-LYSINE
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,908
; FILING DATE: 05-DEC-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 8-325659
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: NORMAN F. OBLON
; REGISTRATION NUMBER: 24,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1411 bases
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; ORIGINAL SOURCE:
; ORGANISM: Brevibacterium lactofermentum
; STRAIN: ATCC 13869
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 311...1213
US-08-985-908-14

Query Match 79.0%; Score 63.2; DB 3; Length 1411;
Best Local Similarity 95.0%; Pred. No. 3.8e-14;

Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
 QY 1 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 60
 Db 250 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 308
 QY 61 CTATGAGCACAGGTTTAAACA 80
 Db 309 CTATGAGCACAGGTTTAAACA 328

RESULT 5
 US-08-852-730-19
 ; Sequence 19, Application US/08852730
 ; Patent No. 6090597
 ; GENERAL INFORMATION:
 ; APPLICANT: SEIKO HIRANO, MASAKAZU SUGIMOTO, EIICHI NAKANO,
 ; APPLICANT: MASAKO IZUI, ATSUSHI HAYAKAWA, YASUHIKO YOSHIHARA, AND TSUYOSHI
 ; APPLICANT: NAKAMATSU
 ; TITLE OF INVENTION: METHOD OF PRODUCING L-LYSINE
 ; NUMBER OF SEQUENCES: 24
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER AND NEUSTADT, P.C.
 ; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
 ; CITY: ARLINGTON
 ; STATE: VA
 ; ZIP: 22026
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/852,730
 ; FILING DATE: 05-07-1997
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 8-142812
 ; FILING DATE: 05-JUN-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: NORMAN F. OBLON
 ; REGISTRATION NUMBER: 24,618
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 703-413-3000
 ; TELEFAX: 703-413-2220
 ; INFORMATION FOR SEQ ID NO: 19:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1411 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: Genomic DNA
 ; ORIGINAL SOURCE:
 ; ORGANISM: Brevibacterium lactofermentum
 ; STRAIN: ATCC 13869
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 311..1213
 ; US-08-852-730-19

Query Match 79.0%; Score 63.2; DB 3; Length 1411;
 Best Local Similarity 95.0%; Pred. No. 3.8e-14;
 Matches 76; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
 QY 1 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 60
 Db 250 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 308
 QY 61 CTATGAGCACAGGTTTAAACA 80
 Db 309 CTATGAGCACAGGTTTAAACA 328

RESULT 6
 US-09-353-133-5
 ; Sequence 5, Application US/09353133
 ; Patent No. 6200785
 ; GENERAL INFORMATION:
 ; APPLICANT: Degussa-Hols AG
 ; APPLICANT: Forschungszentrum Jolich GmbH
 ; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the
 ; FILE REFERENCE: 990058 BT
 ; CURRENT APPLICATION NUMBER: US/09/353.133
 ; CURRENT FILING DATE: 1999-07-14
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 5
 ; LENGTH: 79
 ; TYPE: DNA
 ; ORGANISM: Synthetic sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of the synthetic sequence:
 ; OTHER INFORMATION: dapA promoter of C. glutamicum with the
 ; OTHER INFORMATION: MC20-Mutation
 ; FEATURE:
 ; NAME/KEY: mutation
 ; LOCATION: (45)
 ; US-09-353-133-5

Query Match 77.0%; Score 61.6; DB 3; Length 79;
 Best Local Similarity 93.8%; Pred. No. 6e-14;
 Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
 QY 1 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 60
 Db 1 GTTAGGTTTTTTCGGGGTGTAAACCCCAATCAGGGAAGAGGTATTAATTGAAC 59
 QY 61 CTATGAGCACAGGTTTAAACA 80
 Db 60 CTATGAGCACAGGTTTAAACA 79

RESULT 7
 US-09-022-983-1
 ; Sequence 1, Application US/09022983
 ; Patent No. 6159731
 ; GENERAL INFORMATION:
 ; APPLICANT: Yang, Xiaolu
 ; APPLICANT: Khosravi-Far, Roya
 ; APPLICANT: Chang, Howard Y.
 ; APPLICANT: Baltimore, David
 ; TITLE OF INVENTION: DAXX, A NOVEL FAS-BINDING
 ; TITLE OF INVENTION: PROTEIN THAT ACTIVATES JNK AND APOPTOSIS
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 ; STREET: 600 Atlantic Avenue
 ; CITY: Boston
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/022,983
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/037,919
 ; FILING DATE: 12-FEB-1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/051,753

; FILING DATE: 26-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Van Amsterdam, John R.
; REGISTRATION NUMBER: 40,212
; REFERENCE/DOCKET NUMBER: M0656/7036
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-720-3500
; TELEFAX: 617-720-2441
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2358 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 25...2241
US-09-022-983-1

Query Match 32.8%; Score 26.2; DB 3; Length 2358;
Best Local Similarity 63.5%; Pred. No. 2;
Matches 40; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
Qy 8 TTTTGGCGGGTGTGTTTAAACCCCAAAATGAGGGAAGGTATTAATTGAACCTCTATGAG 67
Db 1 TTTCTGAGGGGAATTGTAACCCCAATGAGGGAAGGTATTAATTGAACCTCTATGAG 60
Qy 68 CAC 70
Db 61 GAC 63

RESULT 8
US-09-490-692-10
; Sequence 10, Application US/09490692
; Patent No. 6180353
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF DAXX EXPRESSION
; FILE REFERENCE: RTS-0120
; CURRENT APPLICATION NUMBER: US/09/490,692
; CURRENT FILING DATE: 2000-01-24
; NUMBER OF SEQ ID NOS: 176
; SEQ ID NO 10
; LENGTH: 2360
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (25)...(2244)
US-09-490-692-10

Query Match 32.8%; Score 26.2; DB 3; Length 2360;
Best Local Similarity 63.5%; Pred. No. 2;
Matches 40; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
Qy 8 TTTTGGCGGGTGTGTTTAAACCCCAAAATGAGGGAAGGTATTAATTGAACCTCTATGAG 67
Db 1 TTTCTGAGGGGAATTGTAACCCCAATGAGGGAAGGTATTAATTGAACCTCTATGAG 60
Qy 68 CAC 70
Db 61 GAC 63

RESULT 9
US-09-397-787-237/c
; Sequence 237, Application US/09397787
; Patent No. 6468758

; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OVARIAN
; TITLE OF INVENTION: CANCER THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.466C2
; CURRENT APPLICATION NUMBER: US/09/397,787
; CURRENT FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 334
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 237
; LENGTH: 452
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-397-787-237

Query Match 32.0%; Score 25.6; DB 4; Length 452;
Best Local Similarity 59.7%; Pred. No. 2;
Matches 43; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
Qy 4 AGGTTTTTGGGGTGTGTTTAAACCCCAAAATGAGGGAAGGTATTAATTGAACCTCTA 63
Db 335 AGATTCTTTTCAAGCTTTTCTCAGTCCCATTAATTAGGACTGAGTGAGCTGGAGCCCTT 276
Qy 64 TGAGCACAGGTT 75
Db 275 TGAACAACAGAT 264

RESULT 10
US-09-539-333D-215/c
; Sequence 215, Application US/09539333D
; Patent No. 6476208
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Bihain, Bernard
; APPLICANT: Essioux, Laurent
; TITLE OF INVENTION: SCHIZOPHRENIA ASSOCIATED GENES, PROTEINS AND BIALLELIC MARKERS
; FILE REFERENCE: GENSET.047AUS
; CURRENT APPLICATION NUMBER: US/09/539,333D
; CURRENT FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: US 60/126,903
; PRIOR FILING DATE: 1999-03-30
; PRIOR APPLICATION NUMBER: US 60/131,971
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: US 60/132,065
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: US 60/143,928
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: US 60/145,915
; PRIOR FILING DATE: 1999-07-27
; PRIOR APPLICATION NUMBER: US 60/146,453
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 60/146,452
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 60/162,288
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: US 09/416,384
; PRIOR FILING DATE: 1999-10-12
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: Patent.pm
; SEQ ID NO 215
; LENGTH: 3001
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1501


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; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5718 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-265-315-48

Query Match          31.5%; Score 25.2; DB 3; Length 5718;
Best Local Similarity 62.9%; Pred. No. 6.2;
Matches 39; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Oy 5 GGTGTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTAATGAACTCTAT 64
    |||||
Db 1601 GGTGTTTATTGATATTTTAAACGCGCAAAACAGATGTATGAAGATAAAGAAATTGCCT 1542
    |||||
Oy 65 GA 66
Db 1541 GA 1540

RESULT 14
US-09-266-417-48/c
; Sequence 48, Application US/09266417
; Patent No. 6228588
; GENERAL INFORMATION:
; APPLICANT: Benton, Bret
; APPLICANT: Lee, Ving J.
; APPLICANT: Malouin, Francois
; APPLICANT: Martin, Patrick K.
; APPLICANT: Schmid, Molly B.
; APPLICANT: Sun, Dongxu
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/266.417
; FILING DATE: March 9, 1999
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/714,918
; FILING DATE: September 13, 1996
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Wardburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 240/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5718 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-266-417-48
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; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5718 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-265-315-48

Query Match          31.5%; Score 25.2; DB 3; Length 5718;
Best Local Similarity 62.9%; Pred. No. 6.2;
Matches 39; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Oy 5 GGTGTTTGGCGGGTGTGTTAAACCCCAAAATGAGGGAAGAGGTATATTAATGAACTCTAT 64
    |||||
Db 1601 GGTGTTTATTGATATTTTAAACGCGCAAAACAGATGTATGAAGATAAAGAAATTGCCT 1542
    |||||
Oy 65 GA 66
Db 1541 GA 1540

RESULT 13
US-09-265-315-48/c
; Sequence 48, Application US/09265315
; Patent No. 6187541
; GENERAL INFORMATION:
; APPLICANT: Benton, Bret
; APPLICANT: Lee, Ving J.
; APPLICANT: Malouin, Francois
; APPLICANT: Martin, Patrick K.
; APPLICANT: Schmid, Molly B.
; APPLICANT: Sun, Dongxu
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/265.315
; FILING DATE: March 9, 1999
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/714,918
; FILING DATE: September 13, 1996
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Wardburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 240/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5718 base pairs
; TYPE: nucleic acid
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Query Match 31.5%; Score 25.2; DB 3; Length 5718;
Best Local Similarity 62.9%; Pred. No. 6.2;
Matches 39; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
QY 5 GGGTTTTCGGGGTGTGTTAAACCCCAAAATGAGGGAAGGTATTAATTGAACCTCTAT 64
|||||
Db 1601 GGGTTTATTGATATTTAACGCCCAACAGATGTATGAAGATAAAGAAATTCCT 1542
QY 65 GA 66
||
Db 1541 GA 1540

RESULT 15
US-08-961-527-68
; Sequence 68, Application US/08961527
; Patent No. 6420135
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 391
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/961,527
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB340P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9244 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-961-527-68

Query Match 31.2%; Score 25; DB 4; Length 9244;
Best Local Similarity 64.9%; Pred. No. 8.6;
Matches 37; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
QY 16 GGGTTGTTTAAACCCCAAAATGAGGGAAGGTATTAATTGAACCTCTATGACACAG 72
|||||
Db 6638 GGGGTGTTTATTATGAATTCAGTTATGAAGATAAAGTTCAGATCTATGAACCTAAG 6694

Search completed: November 10, 2003, 08:38:18
Job time : 58.8428 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 10, 2003, 07:34:34 ; Search time 1117.92 Seconds
(without alignments)
225.494 Million cell updates/sec

Title: US-09-810-521-5

Perfect score: 79

Sequence: 1 gttaggtttttgccccggttt.....ctatgacacaggtttaaca 79

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2141354 seqs, 1595478879 residues

Total number of hits satisfying chosen parameters: 4282708

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
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- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	79	100.0	79	9	US-09-810-521-5
2	79	100.0	79	12	US-10-337-985-5
3	77.4	98.0	79	9	US-09-810-521-4
4	77.4	98.0	79	12	US-10-337-985-4
5	77.4	98.0	1026	11	US-09-746-660A-53
6	77.4	98.0	1411	14	US-10-226-136-14
7	77.4	98.0	3309400	10	US-09-738-626-1
8	61.6	78.0	80	9	US-09-810-521-6
9	61.6	78.0	80	12	US-10-337-985-6
10	40	50.6	40	9	US-09-810-521-16
11	40	50.6	40	12	US-10-337-985-14
12	33.6	42.5	40	9	US-09-810-521-18
13	33.6	42.5	40	12	US-10-337-985-16
14	32.6	41.3	39	9	US-09-810-521-17
15	32.6	41.3	39	12	US-10-337-985-15
16	28.4	35.9	30	14	US-10-067-974-25

17	28	35.4	742	12	US-10-027-632-99671	Sequence 99671, A	
18	28	35.4	742	12	US-10-027-632-99672	Sequence 99672, A	
19	28	35.4	742	13	US-10-027-632-99671	Sequence 99671, A	
20	28	35.4	742	13	US-10-027-632-99672	Sequence 99672, A	
21	27.6	34.9	677	12	US-10-027-632-260979	Sequence 260979, A	
22	27.6	34.9	677	13	US-10-027-632-260979	Sequence 260979, A	
23	27.2	34.4	36	9	US-09-810-521-15	Sequence 15, Appl	
24	27.2	34.4	36	12	US-10-337-985-13	Sequence 13, Appl	
25	26.8	33.9	1007	12	US-10-027-632-252059	Sequence 252059, A	
26	26.8	33.9	1007	13	US-10-027-632-252059	Sequence 252059, A	
c	27	26.6	33.7	29220	10	US-09-764-868-1312	Sequence 1312, Ap
28	26.6	33.7	29220	10	US-09-764-868-1313	Sequence 1313, Ap	
29	26	32.9	3673778	12	US-10-312-841-1	Sequence 1, Appl	
30	25.8	32.7	714	14	US-10-106-698-1060	Sequence 1060, Ap	
c	31	25.6	32.4	545	10	US-09-964-824A-132	Sequence 132, App
32	25.6	32.4	976	12	US-10-027-632-323798	Sequence 323798, A	
33	25.6	32.4	976	12	US-10-027-632-323799	Sequence 323799, A	
34	25.6	32.4	976	13	US-10-027-632-323798	Sequence 323798, A	
35	25.6	32.4	976	13	US-10-027-632-323799	Sequence 323799, A	
36	25.4	32.2	1071	12	US-10-238-075-501	Sequence 501, App	
37	25.4	32.2	13714	12	US-10-085-959-207	Sequence 207, App	
38	25.4	32.2	13757	12	US-10-238-075-490	Sequence 490, App	
39	25.2	31.9	446	10	US-09-967-768A-113	Sequence 113, App	
40	25.2	31.9	629	12	US-10-027-632-36218	Sequence 36218, A	
c	41	25.2	31.9	629	12	US-10-027-632-36219	Sequence 36219, A
c	42	25.2	31.9	629	13	US-10-027-632-36218	Sequence 36218, A
c	43	25.2	31.9	629	13	US-10-027-632-36219	Sequence 36219, A
44	25.2	31.9	11534	12	US-10-311-455-315	Sequence 315, App	
45	25	31.6	477	12	US-10-027-632-196657	Sequence 196657, A	

ALIGNMENTS

RESULT 1

US-09-810-521-5
; Sequence 5, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MCKEL, BETTINA
; APPLICANT: PFEFFERLE, WALTER
; APPLICANT: EGGELE, IOTHAR
; APPLICANT: SAHM, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORNEBACTERIA AND
; TITLE OF INVENTION: PROCESS FOR THE PREPARATION OF LYSINE
; FILE REFERENCE: 21123/278416/MAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 5
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: dapa promoter of C. glutamicum with the
; OTHER INFORMATION: MC20 mutation
; NAME/KEY: mutation
; LOCATION: (45)
US-09-810-521-5

Query Match 100.0%; Score 79; D3 9; Length 79;
Best Local Similarity 100.0%; Pred. No. 6.7e-20;
Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGAAGATGGTAACCTTGAATC 60
DB 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGAAGATGGTAACCTTGAATC 60

QY 61 TATGAGCACAGGTTTAAACA 79
|||||
Db 61 TATGAGCACAGGTTTAAACA 79

RESULT 2

US-10-337-985-5
; Sequence 5, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfeifferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahn, Hermann
; APPLICANT: Patek, Mirosław
; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(79)
; OTHER INFORMATION: dapA promoter of C. glutamicum carrying the MC20 mutation
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (45)
US-10-337-985-5

Query Match 100.0%; Score 79; DB 12; Length 79;
Best Local Similarity 100.0%; Pred. No. 6.7e-20;
Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60
|||||
Db 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60

QY 61 TATGAGCACAGGTTTAAACA 79
|||||
Db 61 TATGAGCACAGGTTTAAACA 79

RESULT 3

US-09-810-521-4
; Sequence 4, Application US/09810521
; Patent No. US20020055153A1
; GENERAL INFORMATION:
; APPLICANT: KREUTZER, CAROLINE
; APPLICANT: MOCKEL, BETTINA
; APPLICANT: PFEIFFERLE, WALTER
; APPLICANT: EGGELING, LOTHAR
; APPLICANT: SAHN, HERMANN
; APPLICANT: PATEK, MIROSLAV
; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
; FILE REFERENCE: 21123/278416/WAS
; CURRENT APPLICATION NUMBER: US/09/810,521
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: DE 199 31314.8
; PRIOR FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4

; LENGTH: 79
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; OTHER INFORMATION: dapA wild-type promoter
US-09-810-521-4

Query Match 98.0%; Score 77.4; DB 9; Length 79;
Best Local Similarity 98.7%; Pred. No. 2.7e-19;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60
|||||
Db 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60

QY 61 TATGAGCACAGGTTTAAACA 79
|||||
Db 61 TATGAGCACAGGTTTAAACA 79

RESULT 4

US-10-337-985-4
; Sequence 4, Application US/10337985
; Publication No. US20030162269A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Caroline
; APPLICANT: Hans, Stephan
; APPLICANT: Rieping, Mechthild
; APPLICANT: Mockel, Bettina
; APPLICANT: Pfeifferle, Walter
; APPLICANT: Eggeling, Lothar
; APPLICANT: Sahn, Hermann
; APPLICANT: Patek, Mirosław
; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
; FILE REFERENCE: 21123/278409
; CURRENT APPLICATION NUMBER: US/10/337,985
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 79
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(79)
; OTHER INFORMATION: dapA wild type promoter
US-10-337-985-4

Query Match 98.0%; Score 77.4; DB 12; Length 79;
Best Local Similarity 98.7%; Pred. No. 2.7e-19;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60
|||||
Db 1 GTTAGGTTTTTGC GG GTTGT TTAACCCCAAAATGAGGGAAGATGGTAACCTTGAATC 60

QY 61 TATGAGCACAGGTTTAAACA 79
|||||
Db 61 TATGAGCACAGGTTTAAACA 79

RESULT 5

US-09-746-660A-53
; Sequence 53, Application US/09746660A
; Publication No. US20030049804A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor

APPLICANT: Kim, Jun-Won
APPLICANT: Lee, Heung-Schick
APPLICANT: Hwang, Byung-Joon
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
FILE REFERENCE: BGI-121CP2
CURRENT APPLICATION NUMBER: US/09/746,660A
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 09/606740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 09/603124
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142101
PRIOR FILING DATE: 1999-07-02
PRIOR APPLICATION NUMBER: 60/148613
PRIOR FILING DATE: 1999-08-12
PRIOR APPLICATION NUMBER: 60/187970
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: DE 19931420.9
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 125
SOFTWARE: PatentIn Vers. 2.0
SEQ ID NO 53
LENGTH: 1026
TYPE: DNA
ORGANISM: Corynebacterium glutamicum
FEATURE:
NAME/KEY: CDS
LOCATION: (101)..(1003)
OTHER INFORMATION: RXA00865
US-09-746-660A-53

Query Match 98.0%; Score 77.4; DB 11; Length 1026;
Best Local Similarity 98.7%; Pred. No. 6.3e-19; Indels 0; Gaps 0;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGGAAGATGGTAACTTGAATC 60
DB 40 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGGAAGATGGTAACTTGAATC 99
QY 61 TATGAGCACAGGTTTAA 79
DB 100 TATGAGCACAGGTTTAA 118

RESULT 6
US-10-226-136-14
Sequence 14, Application US/10226136
Publication No. US20030054506A1
GENERAL INFORMATION:
APPLICANT: OTSUNA, Seiko
SUGIMOTO, Masakazu
IZUI, Masako
HAYAKAWA, Atsushi
NAKANO, Eiichi
KOBAYASHI, Masaki
YOSHIMURA, Yasuhiko
NAKAMATSU, Tsuyoshi
TITLE OF INVENTION: METHOD OF PRODUCING L-LYSINE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/226,136
FILING DATE: 23-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/952,976
FILING DATE: 8-DEC-1997
APPLICATION NUMBER: JP 7-140614
FILING DATE: 07-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1411 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Breivibacterium lactofermentum
STRAIN: ATCC 13869
FEATURE:
NAME/KEY: CDS
LOCATION: 311..1213
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-226-136-14

Query Match 98.0%; Score 77.4; DB 14; Length 1411;
Best Local Similarity 98.7%; Pred. No. 7e-19; Indels 0; Gaps 0;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGGAAGATGGTAACTTGAATC 60
DB 250 GTTAGGTTTTTGGGGGTTGTTTAAACCCCAATGAGGGAAGATGGTAACTTGAATC 309
QY 61 TATGAGCACAGGTTTAA 79
DB 310 TATGAGCACAGGTTTAA 328

RESULT 7
US-09-738-626-1/c
Sequence 1, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0


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/ SEQ ID NO 1
/ LENGTH: 3309400
/ TYPE: DNA
/ ORGANISM: Corynebacterium glutamicum
US-09-738-626-1

Query Match      98.0%; Score 77.4; DB 10; Length 3309400;
Best Local Similarity 98.7%; Pred. No. 9.1e-18;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60
DB 2080244 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 2080185

QY 61 TATGAGCACAGGTTTAAACA 79
DB 2080184 TATGAGCACAGGTTTAAACA 2080166

RESULT 8
US-09-810-521-6
/ Sequence 6, Application US/09810521
/ Patent No. US20020055153A1
/ GENERAL INFORMATION:
/ APPLICANT: KREUTZER, CAROLINE
/ APPLICANT: MOCKEL, BETTINA
/ APPLICANT: PFEFFERLE, WALTER
/ APPLICANT: EGGELE, LOTHAR
/ APPLICANT: SAHM, HERMANN
/ APPLICANT: PATEK, MIROSLAV
/ TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
/ FILE REFERENCE: 21123/278416/NAS
/ CURRENT APPLICATION NUMBER: US/09/810,521
/ CURRENT FILING DATE: 2001-03-19
/ PRIOR APPLICATION NUMBER: DE 199 31314.8
/ PRIOR FILING DATE: 1999-05-07
/ NUMBER OF SEQ ID NOS: 18
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 6
/ LENGTH: 80
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:
/ NAME/KEY: mutation
/ LOCATION: (35)..(53)
US-09-810-521-6

Query Match      78.0%; Score 61.6; DB 9; Length 80;
Best Local Similarity 93.8%; Pred. No. 2.4e-13;
Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 59
DB 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60

QY 60 CTATGAGCACAGGTTTAAACA 79
DB 61 CTATGAGCACAGGTTTAAACA 80

RESULT 9
US-10-337-985-6
/ Sequence 6, Application US/10337985
/ Publication No. US20030162269A1
/ GENERAL INFORMATION:
/ APPLICANT: Kreutzer, Caroline
/ APPLICANT: Hans, Stephan
/ APPLICANT: Rieping, Mechthild
/ APPLICANT: Mockel, Bettina
```

```
/ APPLICANT: Pfefferle, Walter
/ APPLICANT: Eggeling, Lothar
/ APPLICANT: Sahm, Hermann
/ APPLICANT: Patek, Miroslov
/ TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparat.
/ FILE REFERENCE: 21123/278409
/ CURRENT APPLICATION NUMBER: US/10/337,985
/ CURRENT FILING DATE: 2003-01-08
/ NUMBER OF SEQ ID NOS: 16
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 6
/ LENGTH: 80
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(80)
/ OTHER INFORMATION: dapA promoter of C. glutamicum carrying the MAL6 mutation
/ NAME/KEY: mutation
/ LOCATION: (35)..(53)
US-10-337-985-6

Query Match      78.0%; Score 61.6; DB 12; Length 80;
Best Local Similarity 93.8%; Pred. No. 2.4e-13;
Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 59
DB 1 GTTAGGTTTTTTCGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60

QY 60 CTATGAGCACAGGTTTAAACA 79
DB 61 CTATGAGCACAGGTTTAAACA 80

RESULT 10
US-09-810-521-16/c
/ Sequence 16, Application US/09810521
/ Patent No. US20020055153A1
/ GENERAL INFORMATION:
/ APPLICANT: KREUTZER, CAROLINE
/ APPLICANT: MOCKEL, BETTINA
/ APPLICANT: PFEFFERLE, WALTER
/ APPLICANT: EGGELE, LOTHAR
/ APPLICANT: SAHM, HERMANN
/ APPLICANT: PATEK, MIROSLAV
/ TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND
/ FILE REFERENCE: 21123/278416/NAS
/ CURRENT APPLICATION NUMBER: US/09/810,521
/ CURRENT FILING DATE: 2001-03-19
/ PRIOR APPLICATION NUMBER: DE 199 31314.8
/ PRIOR FILING DATE: 1999-05-07
/ NUMBER OF SEQ ID NOS: 18
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 16
/ LENGTH: 40
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Artificial
/ OTHER INFORMATION: Primer
US-09-810-521-16

Query Match      50.6%; Score 40; DE 9; Length 40;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 CCAAAATGAGGGAAGATGGTAACCTTGAATCTTATGAGCAC 69
DB 40 CCAAAATGAGGGAAGATGGTAACCTTGAATCTTATGAGCAC 1
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RESULT 11

US-10-337-985-14/c

; Sequence 14, Application US/10337985

; Publication No. US20030162269A1

; GENERAL INFORMATION:

; APPLICANT: Kreutzer, Caroline

; APPLICANT: Hans, Stephan

; APPLICANT: Rieping, Mechthild

; APPLICANT: Mockel, Bettina

; APPLICANT: Pfeifferle, Walter

; APPLICANT: Eggeling, Lothar

; APPLICANT: Sahm, Hermann

; APPLICANT: Patek, Miroslov

; TITLE OF INVENTION: L-LYSINE-PRODUCING CORYNEBACTERIUM AND PROCESS FOR THE PREPARATION

; FILE REFERENCE: 21123/278409

; CURRENT APPLICATION NUMBER: US/10/337,985

; CURRENT FILING DATE: 2003-01-08

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 14

; LENGTH: 40

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (1)..(40)

; OTHER INFORMATION: PCR primer

US-10-337-985-14

Query Match

Best Local Similarity 50.6%; Score 40; DB 12; Length 40;

Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy

30 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 69

Db

40 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 1

RESULT 12

US-09-810-521-18/c

; Sequence 18, Application US/09810521

; Patent No. US20020055153A1

; GENERAL INFORMATION:

; APPLICANT: KREUTZER, CAROLINE

; APPLICANT: MOCKEL, BETTINA

; APPLICANT: PFEFFERLE, WALTER

; APPLICANT: EGGELING, LOTHAR

; APPLICANT: SAHM, HERMANN

; APPLICANT: PATEK, MIROSLAV

; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND

; FILE REFERENCE: 21123/278416/MAS

; CURRENT APPLICATION NUMBER: US/09/810,521

; CURRENT FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: DE 199 31314.8

; PRIOR FILING DATE: 1999-05-07

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 18

; LENGTH: 40

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Artificial

; OTHER INFORMATION: Primer

US-09-810-521-18

Query Match

Best Local Similarity 42.5%; Score 33.6; DB 9; Length 40;

Matches 36; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy

30 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 69

Db

40 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 1

RESULT 13

US-10-337-985-16/c

; Sequence 16, Application US/10337985

; Publication No. US20030162269A1

; GENERAL INFORMATION:

; APPLICANT: Kreutzer, Caroline

; APPLICANT: Hans, Stephan

; APPLICANT: Rieping, Mechthild

; APPLICANT: Mockel, Bettina

; APPLICANT: Pfeifferle, Walter

; APPLICANT: Eggeling, Lothar

; APPLICANT: Sahm, Hermann

; APPLICANT: Patek, Miroslov

; TITLE OF INVENTION: L-LYSINE-PRODUCING CORYNEBACTERIUM AND PROCESS FOR THE PREPARATION

; FILE REFERENCE: 21123/278409

; CURRENT APPLICATION NUMBER: US/10/337,985

; CURRENT FILING DATE: 2003-01-08

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 16

; LENGTH: 40

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (1)..(40)

; OTHER INFORMATION: PCR primer

US-10-337-985-16

Query Match

Best Local Similarity 42.5%; Score 33.6; DB 12; Length 40;

Matches 36; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy

30 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 69

Db

40 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCAC 1

RESULT 14

US-09-810-521-17

; Sequence 17, Application US/09810521

; Patent No. US20020055153A1

; GENERAL INFORMATION:

; APPLICANT: KREUTZER, CAROLINE

; APPLICANT: MOCKEL, BETTINA

; APPLICANT: PFEFFERLE, WALTER

; APPLICANT: EGGELING, LOTHAR

; APPLICANT: SAHM, HERMANN

; APPLICANT: PATEK, MIROSLAV

; TITLE OF INVENTION: L-LYSINE PRODUCING CORYNEBACTERIA AND

; FILE REFERENCE: 21123/278416/MAS

; CURRENT APPLICATION NUMBER: US/09/810,521

; CURRENT FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: DE 199 31314.8

; PRIOR FILING DATE: 1999-05-07

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 17

; LENGTH: 39

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Artificial

; OTHER INFORMATION: Primer

US-09-810-521-17

Query Match 41.3%; Score 32.6; DB 9; Length 39;
 Best Local Similarity 89.7%; Pred. NO. 0.015;
 Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 30 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCA 68
 |||||
 Db 1 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCA 39

RESULT 15

US-10-337-985-15
 ; Sequence 15, Application US/10337985
 ; Publication No. US2003016226A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kreutzer, Caroline
 ; APPLICANT: Hans, Stephan
 ; APPLICANT: Rieping, Mechthild
 ; APPLICANT: Mockel, Bettina
 ; APPLICANT: Pfeifferle, Walter
 ; APPLICANT: Eggeling, Lothar
 ; APPLICANT: Sam, Hermann
 ; APPLICANT: Patek, Miroslav
 ; TITLE OF INVENTION: L-Lysine-Producing Corynebacterium and Process for the Preparation
 ; FILE REFERENCE: 21123/278409
 ; CURRENT APPLICATION NUMBER: US/10/337,985
 ; CURRENT FILING DATE: 2003-01-08
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 15
 ; LENGTH: 39
 ; TYPE: DNA
 ; ORGANISM: Artificial
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)..(39)
 ; OTHER INFORMATION: PCR primer
 US-10-337-985-15

Query Match 41.3%; Score 32.6; DB 12; Length 39;
 Best Local Similarity 89.7%; Pred. NO. 0.015;
 Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 30 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCA 68
 |||||
 Db 1 CCAATGAGGGAAGATGTTAACTTGAACCTCTATGAGCA 39

Search completed: November 10, 2003, 08:36:11
 Job time : 1125.92 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

QM nucleic - nucleic search, using sw model

Run on: November 10, 2003, 07:34:34 ; Search time 54.1572 Seconds
(without alignments)
643.852 Million cell updates/sec

Title: US-09-810-521-5

Perfect score: 79

Sequence: 1 gtaggtttttcgggggtt.....ctatgagcacaggtttaaca 79

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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2: /cgn2_6/ptodata/2/ina/5B-COMB.seq:*

3: /cgn2_6/ptodata/2/ina/6A-COMB.seq:*

4: /cgn2_6/ptodata/2/ina/6B-COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PTUS-COMB.seq:*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	79	100.0	79	3	US-09-353-133-5
2	77.4	98.0	79	3	US-09-353-133-4
3	77.4	98.0	1411	1	US-08-674-168-18
4	77.4	98.0	1411	3	US-08-985-908-14
5	77.4	98.0	1411	3	US-08-852-730-19
6	61.6	78.0	80	3	US-09-353-133-6
7	25	31.6	1431	1	US-08-451-715A-11
8	24.2	30.6	705	4	US-09-107-532A-1629
9	23.6	29.9	654	4	US-08-936-165A-234
10	23.6	29.9	936	3	US-08-910-501-3
11	23.6	29.9	936	3	US-09-398-550-3
12	23.6	29.9	939	3	US-08-910-501-1
13	23.6	29.9	939	3	US-08-398-550-1
14	23.4	29.6	2381	2	US-08-736-770-4
15	23.4	29.6	10917	3	US-08-926-842B-11
16	23.2	29.4	887	4	US-09-016-434-58
17	23	29.1	635	3	US-09-078-394-15
18	23	29.1	246240	2	US-08-724-394A-20
19	23	29.1	246240	2	US-08-724-394A-21
20	23	29.1	246240	2	US-08-724-394A-22
21	22.8	28.9	188	4	US-09-702-705-1741
22	22.8	28.9	188	4	US-09-736-457-1741
23	22.8	28.9	307	4	US-09-702-705-496
24	22.8	28.9	307	4	US-09-736-457-496
25	22.8	28.9	1664976	4	US-08-916-421B-1
26	22.8	28.9	1830121	4	US-09-557-884-1
27	22.8	28.9	1830121	4	US-09-643-990A-1

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28      22.6      28.6      459      3      US-09-358-580-7      Sequence 7, Appli
29      22.6      28.6      459      3      US-09-358-580-9      Sequence 9, Appli
C 30      22.6      28.6      839      1      US-08-652-859-1      Sequence 1, Appli
C 31      22.6      28.6      839      1      US-08-919-706-1      Sequence 1, Appli
C 32      22.6      28.6      839      2      US-09-153-751-1      Sequence 1, Appli
C 33      22.6      28.6      932      4      US-09-886-319A-84      Sequence 84, Appli
C 34      22.6      28.6      9244      4      US-08-961-527-68      Sequence 68, Appli
C 35      22.6      28.6      1830121      4      US-09-557-884-1      Sequence 1, Appli
C 36      22.6      28.6      1830121      4      US-09-643-990A-1      Sequence 1, Appli
C 37      22.4      28.4      777      4      US-09-556-916-29      Sequence 29, Appli
C 38      22.4      28.4      777      4      US-09-556-916-31      Sequence 31, Appli
C 39      22.4      28.4      2019      4      US-09-556-916-25      Sequence 25, Appli
C 40      22.4      28.4      2019      4      US-09-556-916-27      Sequence 27, Appli
C 41      22.4      28.4      319608      4      US-09-539-333D-1      Sequence 1, Appli
C 42      22.4      28.4      319608      4      US-09-679-409-1      Sequence 1, Appli
C 43      22.2      28.1      1984      4      US-08-733-622C-1      Sequence 1, Appli
C 44      22.2      28.1      2468      1      US-08-468-036-19      Sequence 19, Appli
C 45      22.2      28.1      2468      2      US-08-376-843-19      Sequence 19, Appli

```

ALIGNMENTS

RESULT 1

US-09-353-133-5
; Sequence 5, Application US/09353133
; Patent No. 6200785

GENERAL INFORMATION:
; APPLICANT: Degussa-Hols AG

; APPLICANT: Forschungszentrum Jolich GmbH
; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the

; TITLE OF INVENTION: Preparation of L-lysine
; FILE REFERENCE: 990058 BT

; CURRENT APPLICATION NUMBER: US/09/353.133
; CURRENT FILING DATE: 1999-07-14

; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn ver. 2.1

; SEQ ID NO 5
; LENGTH: 79

; TYPE: DNA
; ORGANISM: Synthetic sequence

; FEATURE:
; OTHER INFORMATION: Description of the synthetic sequence:

; OTHER INFORMATION: dapA promoter of C. glutamicum with the
; OTHER INFORMATION: MC20-Mutation

; NAME/KEY: mutation
; LOCATION: (45)

US-09-353-133-5

Query Match 100.0%; Score 79; DE 3; Length 79;
Best Local Similarity 100.0%; Pred. No. 2.4e-22;
Matches 79; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTTAGGTTTTTTCGGGGTGTGTTTAAACCCCAATAGGGGAAGATGGTAACCTTGAACCTC 60

Db 1 GTTAGGTTTTTTCGGGGTGTGTTTAAACCCCAATAGGGGAAGATGGTAACCTTGAACCTC 60

Qy 61 TATGAGCACAGGTTTAAACA 79

Db 61 TATGAGCACAGGTTTAAACA 79

RESULT 2

US-09-353-133-4
; Sequence 4, Application US/09353133
; Patent No. 6200785

GENERAL INFORMATION:
; APPLICANT: Degussa-Hols AG

; APPLICANT: Forschungszentrum Jolich GmbH
; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the

; TITLE OF INVENTION: Preparation of L-lysine
; FILE REFERENCE: 990058 BT

;; CURRENT APPLICATION NUMBER: US/09/353,133
;; CURRENT FILING DATE: 1999-07-14
;; NUMBER OF SEQ ID NOS: 6
;; SOFTWARE: Patent In Ver. 2.1
;; SEQ ID NO 4
;; LENGTH: 79
;; TYPE: DNA
;; ORGANISM: Corynebacterium glutamicum
;; FEATURE:
;; OTHER INFORMATION: dapA wild-type promoter
US-09-353-133-4

Query Match 98.0%; Score 77.4; DB 3; Length 79;
Best Local Similarity 98.7%; Pred. No. 1e-21;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAATGAGGGAAGATGGTTAACTTGAATC 60
DB 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAATGAGGGAAGATGGTTAACTTGAATC 60

QY 61 TATGAGCACAGGTTTAAACA 79
DB 61 TATGAGCACAGGTTTAAACA 79

RESULT 3
US-08-674-168-18
; Sequence 18, Application US/08674168
; Patent No. 580414
; GENERAL INFORMATION:
; APPLICANT: MORIVA, Mika
; APPLICANT: MATSUI, Hiroshi
; APPLICANT: YOKOZAKI, Kenzo
; APPLICANT: HIRANO, Seiko
; APPLICANT: HAYAKAWA, Atsushi
; APPLICANT: IZUI, Masako
; APPLICANT: SUGIMOTO, Masakazu
; TITLE OF INVENTION: METHOD OF AMPLIFYING GENE USING
; TITLE OF INVENTION: ARTIFICIAL TRANSPOSON
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; ADDRESSER: P.C.
; STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE # 400
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/674,168
; FILING DATE: 01-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-166541
; FILING DATE: 30-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 10-810-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1411 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Brevibacterium lactofermentum
;; STRAIN: ATCC 13869
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 311..1213
US-08-674-168-18

Query Match 98.0%; Score 77.4; DB 1; Length 1411;
Best Local Similarity 98.7%; Pred. No. 3.2e-21;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAATGAGGGAAGATGGTTAACTTGAATC 60
DB 250 GTTAGGTTTTTGGCGGGTGTGTTAAACCCCAATGAGGGAAGATGGTTAACTTGAATC 309

QY 61 TATGAGCACAGGTTTAAACA 79
DB 310 TATGAGCACAGGTTTAAACA 328

RESULT 4
US-08-985-908-14
; Sequence 14, Application US/08985908
; Patent No. 600473
; GENERAL INFORMATION:
; APPLICANT: MASAYUKI ARAKI, MASAKAZU SUGIMOTO, YASUHIKO YOSHIHARA, AND TSUYOSHI N
; TITLE OF INVENTION: METHOD FOR PRODUCING L-LYSINE
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT, P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,908
; FILING DATE: 05-DEC-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 8-325659
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: NORMAN F. OBLON
; REGISTRATION NUMBER: 24,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1411 bases
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; ORIGINAL SOURCE:
; ORGANISM: Brevibacterium lactofermentum
; STRAIN: ATCC 13869
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 311..1213
US-08-985-908-14

Query Match 98.0%; Score 77.4; DB 3; Length 1411;
Best Local Similarity 98.7%; Pred. No. 3.2e-21;

Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60
Db 250 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 309

Qy 61 TATGAGCACAGGTTTAAACA 79
Db 310 TATGAGCACAGGTTTAAACA 328

RESULT 5
US-08-852-730-19
; Sequence 19, Application US/08852730
; Patent No. 6090597
; GENERAL INFORMATION:
; APPLICANT: SEIKO HIRANO, MASAKAZU SUGIMOTO, EIICHI NAKANO,
; APPLICANT: MASAKO IZUI, ATSUSHI HAYAKAWA, YASUHIKO YOSHIHARA, AND TSUYOSHI
; APPLICANT: NAKAMATSU
; TITLE OF INVENTION: METHOD OF PRODUCING L-LYSINE
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER AND NEUSTADT, P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
; CITY: ARLINGTON
; STATE: VA
; ZIP: 22026
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/852,730
; FILING DATE: 05-07-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 8-142812
; FILING DATE: 05-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: NORMAN F. OBLON
; REGISTRATION NUMBER: 24,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1411 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; ORIGINAL SOURCE:
; ORGANISM: Brevibacterium lactofermentum
; STRAIN: ATCC 13869
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 311..1213
US-08-852-730-19

Query Match 98.0%; Score 77.4; DB 3; Length 1411;
Best Local Similarity 98.7%; Pred. No. 3.2e-21;
Matches 78; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60
Db 250 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 309

Qy 61 TATGAGCACAGGTTTAAACA 79
Db 310 TATGAGCACAGGTTTAAACA 328

RESULT 6
US-09-353-133-6
; Sequence 6, Application US/09353133
; Patent No. 6200785
; GENERAL INFORMATION:
; APPLICANT: Degussa-Hols AG
; APPLICANT: Forschungszentrum Jolich GmbH
; TITLE OF INVENTION: L-Lysine-producing corynebacteria and process for the
; FILE REFERENCE: 990058 BT
; CURRENT APPLICATION NUMBER: US/09/353,133
; CURRENT FILING DATE: 1999-07-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Synthetic sequence
; FEATURE:
; OTHER INFORMATION: Description of the synthetic sequence:
; OTHER INFORMATION: dapa promoter of C. glutamicum with the
; OTHER INFORMATION: WA16-Mutation
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (35)..(53)
US-09-353-133-6

Query Match 78.0%; Score 61.6; DB 3; Length 80;
Best Local Similarity 93.8%; Pred. No. 1.9e-15;
Matches 75; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Qy 1 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 59
Db 1 GTTAGGTTTTTGGGGTGTGTTAAACCCCAATGAGGGAAGATGGTAACCTTGAATC 60

Qy 60 CTATGAGCACAGGTTTAAACA 79
Db 61 CTATGAGCACAGGTTTAAACA 80

RESULT 7
US-08-451-715A-11/c
; Sequence 11, Application US/08451715A
; Patent No. 5801013
; GENERAL INFORMATION:
; APPLICANT: Tao, Jianshi
; APPLICANT: Qui, Yan
; APPLICANT: Houman, Fariba
; APPLICANT: Shen, Xiaoyu
; APPLICANT: Schimmel, Paul R.
; TITLE OF INVENTION: Helicobacter Aminoacyl-tRNA Synthetase
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/451,715A
; FILING DATE: 26-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: CPI94-25

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; SEQUENCE DESCRIPTION: SEQ ID NO: 1629:
US-09-107-532A-1629

Query Match          30.6%; Score 24.2; DB 4; Length 705;
Best Local Similarity 62.3%; Pred. No. 3.2;
Matches 38; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 17 GGTGTTTAAACCCCAAAATGAGGGAAGATGGTAAACCTTGAACCTTATGACACAGGTTTA 76
DB 419 GCGTGTATAATCAAGAAATATGGGAAAGTTGGAACTTAGAAAAACATGAGCATTTGGGTAA 478

QY 77 A 77
DB 479 A 479

RESULT 9
US-08-936-165A-234/c
; Sequence 234, Application US/08936165A
; Patent No. 6348582
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Burnham, Martin
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David
; APPLICANT: Lonetto, Michael
; APPLICANT: Nicholas, Richard
; APPLICANT: Pratt, Julie
; APPLICANT: Reichard, Richard
; APPLICANT: Rosenberg, Martin
; APPLICANT: Ward, Judith
; TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
; TITLE OF INVENTION: Polypeptides and Their Uses
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSES: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/936,165A
; FILING DATE: 24-SEP-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/027,032
; FILING DATE: 24-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Gimmi, Edward R
; REGISTRATION NUMBER: 38,891
; REFERENCE/DOCKET NUMBER: P50549
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-4478
; TELEFAX: 610-270-5090
; TELEX:
; INFORMATION FOR SEQ ID NO: 234:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 654 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
US-08-936-165A-234

Query Match          29.9%; Score 23.6; DB 4; Length 654;
Best Local Similarity 64.8%; Pred. No. 5.4;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```


FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: P50549-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 939 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-910-501-1

Query Match 29.9%; Score 23.6; DB 3; Length 939;
Best Local Similarity 64.8%; Pred. No. 6.2;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 1 GTTAGGTTTTCGGGGTGTGTTTAAACCCCAATGAGGAGATGGTAACTT 54
|||||
Db 586 GTTCGATTCTTCGTCGTGTTGATTCACCATTCATAACGCATGCTTATAAACTT 533
|||||

RESULT 13
US-09-398-550-1/c
Sequence 1, Application US/09398550
Patent No. 6232292
GENERAL INFORMATION:
APPLICANT: Burnham, Martin
 Lenetto, Michael
 Warren, Patrick
TITLE OF INVENTION: NOVEL 3-DEHYDROQUINATE SY
NTASE
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/398,550
FILING DATE: 17-Sep-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/910,501
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: P50549-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 939 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-398-550-1

Query Match 29.9%; Score 23.6; DB 3; Length 939;
Best Local Similarity 64.8%; Pred. No. 6.2;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 1 GTTAGGTTTTCGGGGTGTGTTTAAACCCCAATGAGGAGATGGTAACTT 54
|||||
Db 586 GTTCGATTCTTCGTCGTGTTGATTCACCATTCATAACGCATGCTTATAAACTT 533
|||||

RESULT 14
US-08-736-770-4/c
Sequence 4, Application US/08736770
Patent No. 5871965
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Au-Young, Janice
APPLICANT: Hillman, Jennifer L.
TITLE OF INVENTION: NOVEL HUMAN GUANYLATE BINDING PROTEINS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/736,770
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PP-0145 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2381 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY:
CLONE: Consensus
US-08-736-770-4

Query Match 29.6%; Score 23.4; DB 2; Length 2381;
Best Local Similarity 64.7%; Pred. No. 11;
Matches 33; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

Qy 19 TTGTTTAAACCCCAATGAGGAGATGGTAACTTGAACCTTATGAGCAC 69
|||||
Db 1048 TYCTGTATACCAACAGACGGGTCAAATTTGAAATTTTGAACCTTCTTGTATCAC 998
|||||

RESULT 15
US-08-926-842B-11/c
Sequence 11, Application US/08926842B
Patent No. 6030807
GENERAL INFORMATION:
APPLICANT: Sa-No. 6030807ueira, Isabel
APPLICANT: de Lencastre, Herminia
TITLE OF INVENTION: HIGHLY REGULABLE PROMOTER FOR HETEROLOGOUS GENE

TITLE OF INVENTION: EXPRESSION
 NUMBER OF SEQUENCES: 64
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Klauber & Jackson
 STREET: 411 Hackensack Avenue
 CITY: Hackensack
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/926.842B
 FILING DATE: 10-SEP-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jackson Esq., David A.
 REGISTRATION NUMBER: 26,742
 REFERENCE/DOCKET NUMBER: 600-1-089 N
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201 487-5800
 TELEFAX: 201 343-1684
 TELEX: 133521
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 10917 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: Bacillus subtilis
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 228..1718
 OTHER INFORMATION: /product= "araA"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1732..3417
 OTHER INFORMATION: /product= "araB"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3431..4120
 OTHER INFORMATION: /product= "araD"
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 4107..4916
 OTHER INFORMATION: /product= "araL"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 4913..6097
 OTHER INFORMATION: /product= "araM"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 6128..7429
 OTHER INFORMATION: /product= "araN"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 7465..8406
 OTHER INFORMATION: /product= "araP"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 8407..9255
 OTHER INFORMATION: /product= "araQ"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 9271..10773
 OTHER INFORMATION: /product= "abfA"
 US-08-926-842B-11

Query Match 29.6%; Score 23.4; DB 3; Length 10917;
 Best Local Similarity 63.2%; Pred. No. 19;
 Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
 QY 23 TTAACCCCAAAATGAGGGAAGATGTAACCTTGAACTCTATGAGCACAGGTTTAAACA 79
 Db 9485 TTTCGGCCCGGATAGCGGATGATGGGAACCTGTAATTTCTTTGATCAGCAGCTGGACA 9429

Search completed: November 10, 2003, 08:38:14
 Job time : 63.1572 secs